CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory
An ISO 9001:2008 Certified Company
NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KRIDL/W.No.13/WMM/Gradation/2017-18 27.12.2017

TEST REPORT ON GRADATION OF WET MIX MACADAM

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Asphalting at Shooting Bungalow road Ravindra Nagara and other roads in Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/142/2017-18 Dated: 21.12.2017
Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386 (part-1)1963 (RA-2011)
Date of Testing	:	27.12.2017

Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	125	125	2.5	97.5	95-100
22.4	1535	1660	33.20	66.80	60-80
11.2	1245	2905	58.10	41.90	40-60
4.75	545	3450	69.00	31.00	25-40
2.36	485	3935	78.70	21.30	15-30
0.600	470	4405	88.10	11.90	8-22
0.075	420	4825	96.50	3.50	0-8

*Information is furnished by the Customer/Representative.

Note:

⇒The report shall not be reproduced, except in full, without the written approval of the laboratory.

⇒The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒Any Query regarding the report must be reported within 30 days from the date of testing.

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Oven Dry Wt (gm): **5000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits As per Morth Table 400-13
53	0	0	0	100	100
45	165	165	3.3	96.7	95-100
22.4	1585	1750	35.00	65.00	60-80
11.2	1150	2900	58.00	42.00	40-60
4.75	560	3460	69.20	30.80	25-40
2.36	505	3965	79.30	20.70	15-30
0.600	475	4440	88.80	11.20	8-22
0.075	350	4790	95.80	4.20	0-8

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Job No.: CTCE/BBMP/KRIDL/W.No.13/WMM/AIV/2017-18 27.12.2017

TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Asphalting at Shooting Bungalow road Ravindra Nagara and other roads in Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/142/2017-18 Dated: 21.12.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	27.12.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	390	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	305	298	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	21.79	22.60	22.20

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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TEST REPORT ON IMPACT VALUE OF AGGREGATE

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/DD/WO/142/2017-18 Dated: 21.12.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS : 2386(Part -4)-1963 (RA-2011)
Date of Testing	:	27.12.2017

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	392	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	96	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	295	296	
4	Aggregate Impact value = percent fines 100* (W2/W1)%	22.37	24.49	23.43

*Information is furnished by the Customer/Representative.

Comments:

→ Maximum allowable Aggregate Impact value for Wet Mix Macadam is 30%

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TEST REPORT ON FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
* Agency	:	**Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	:	Improvements to Roads and Asphalting at Shooting Bungalow road Ravindra Nagara and other roads in Mallasandra Ward No.13, BBMP, Bangalore.
* Reference	:	BBMP/EE/DD/WO/142/2017-18 Dated: 21.12.2017
* Sample ID	:	Wet Mix Macadam
Technical Reference	:	IS 2386(Part 1) 1963 (RA 2011)
Date of Testing	:	27.12.2017

Sl.No.	Description	Result
1	Flakiness Index	11.04%
2	Elongation Index	13.60%
3	Combined Flakiness & Elongation Index	24.64%

*Information is furnished by the Customer/Representative.

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Comments:

→ Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

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